Document Number: 040-00068	Rev	Description	Date	ECO#
	1	SERVICE MANUAL	2/14/2008	00239

Form Instructions

Title	**SERVICE MANUAL, POWER SOCKET / LIGHT BOARD REPLACEMENT**
Operation Description	**Sub Assembly**

Standards	**Man Occup.**	**Machine Occup.**	**Cycle Time**	**Setup Time**	**Batch Qty**

Equipment List

Equipment	Manufacturer	Qty
1- P/S Light Control	T3 Motion	1
2- Phillips screw driver (small)	Any	1
3- ¼ inch nut driver	Any	1
4- 1/8 inch Allen wrench	Any	1
5- Wire cutters	Any	1
6- Blade screwdriver (small)	Any	1

Reference Docs	Document #	Description	Document #	Description
Related Files				
RESP ENGR	**Mark Jones**			

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Item#	Part #	Description	Qty
1	020-00012	P/S Light Control Assembly	1

Serious electrical shock can occur if precautions are not followed.

- **ALWAYS TURN OFF POWER BREAKER IN GLOVE BOX AND REMOVE POWER MODULES BEFORE PERFORMING ANY ELECTRICAL WORK.**

Power breaker in glove box

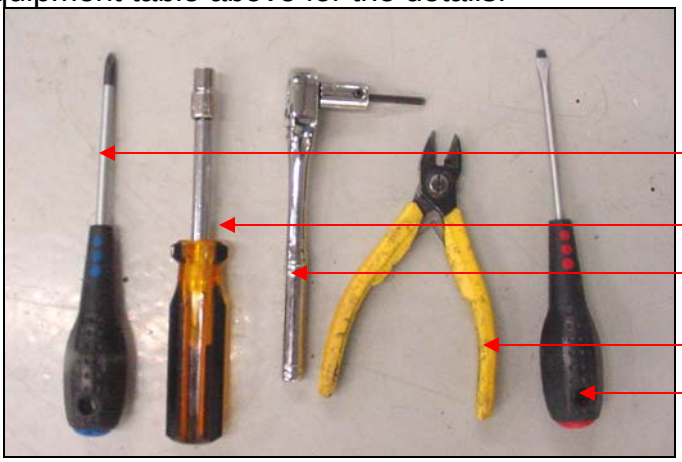
Power modules

- **ALSO SET THE PARKING BRAKE PRIOR TO ANY WORK.**

Parking brake

WORK INSTRUCTIONS:

1.0 Recommended tools for replacing the power socket / light board assembly. See equipment table above for the details.



2- Phillips screwdriver

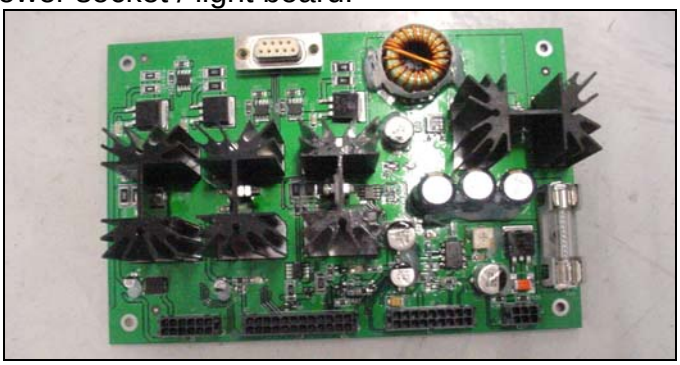
3- ¼ inch nut driver

4- 1/8 inch Allen wrench

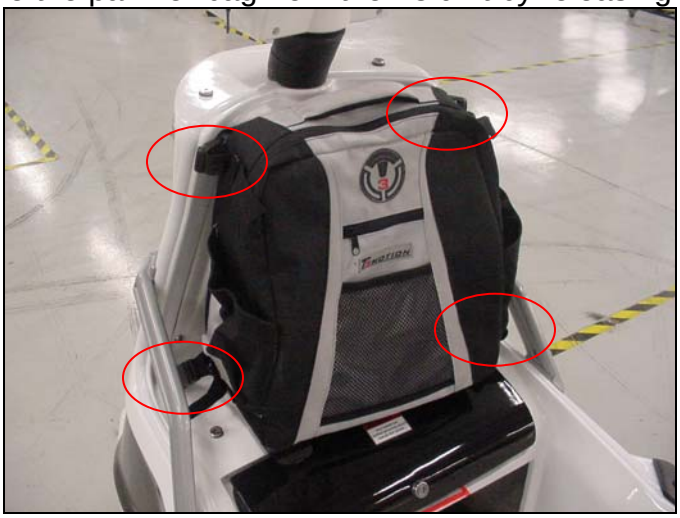
5- Wire cutters

6- Blade screwdriver

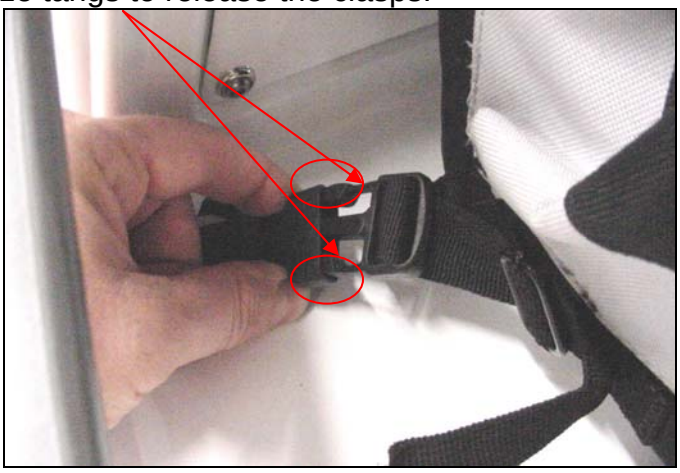
1.1 New power socket / light board.



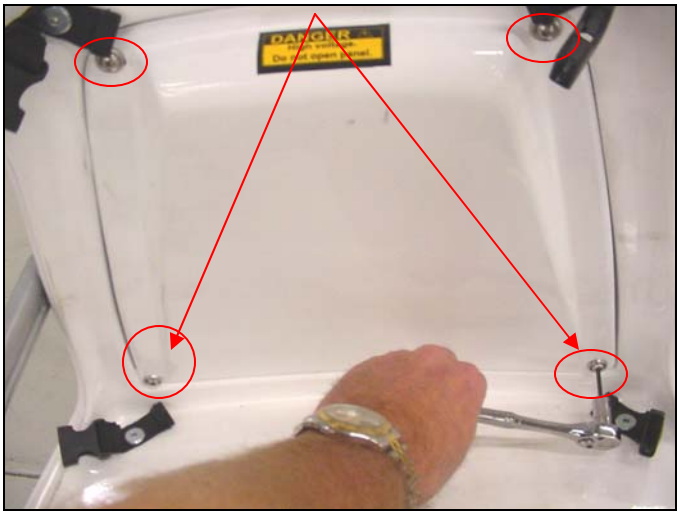
2.0 Remove the pannier bag from the T3 unit by releasing the four plastic clasps.



2.1 Squeeze tangs to release the clasps.

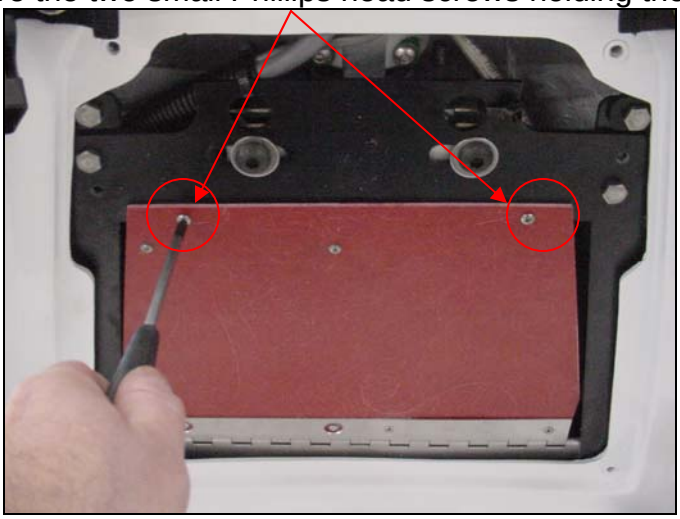


3.0 Using the 1/8 inch Allen wrench, remove the four fasteners that attach the access panel. Remove the bottom two first.

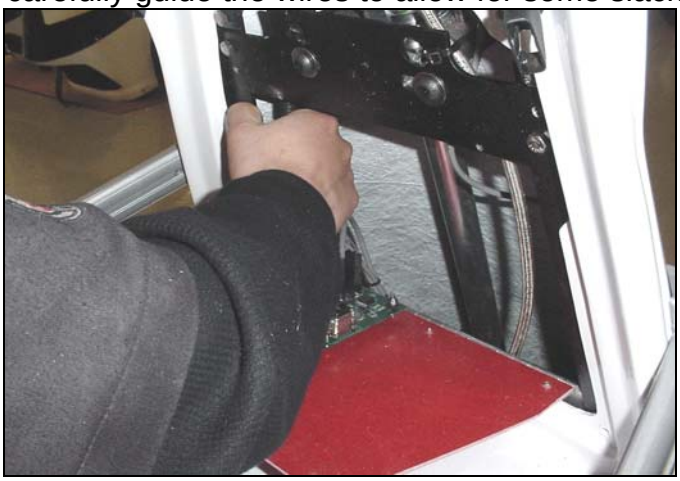


3.1 Remove access panel.

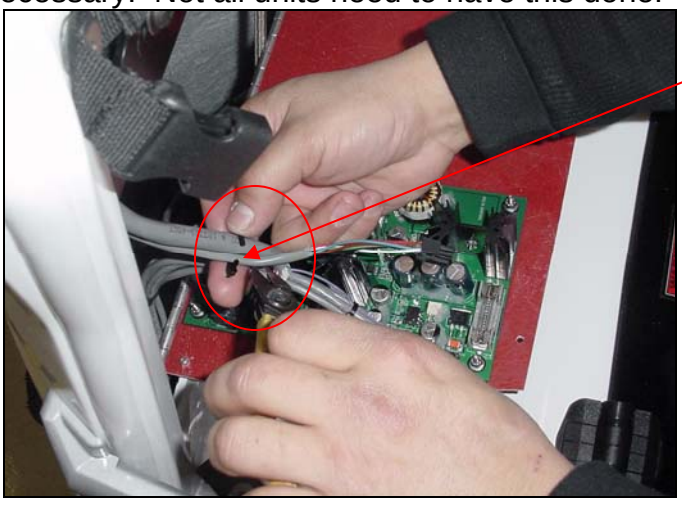
4.0 Remove the two small Phillips head screws holding the red/pink board in place.



4.1 Gently lower the hinged panel. Do not force, if it does not open all the way easily, carefully guide the wires to allow for some slack in them.

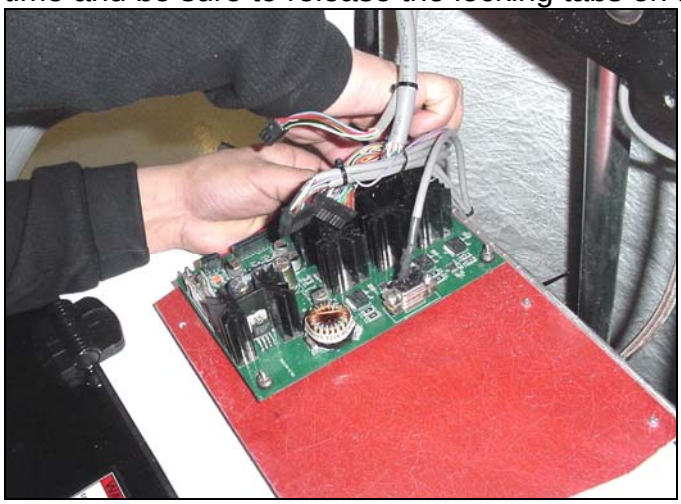


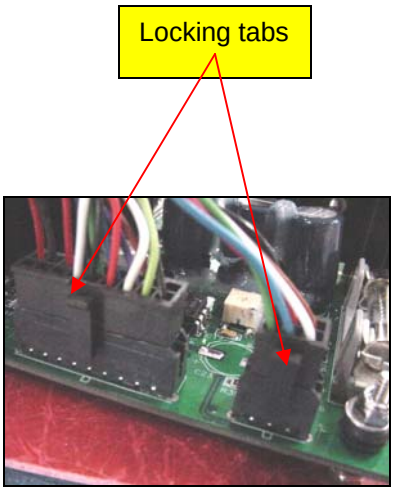
4.2 If you cannot get enough slack in the wires, check to see if clipping a nylon wire tie is necessary. Not all units need to have this done.



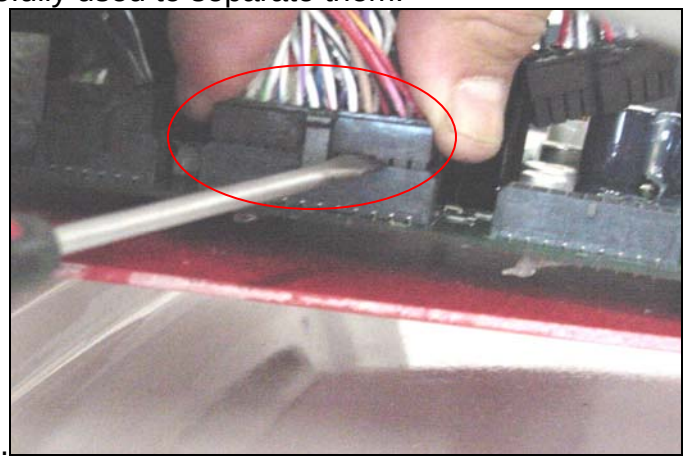
4.3 This is a view of the fully exposed board from the left hand side of the vehicle.

5.0 Unplug the four connectors positioned along the left side of the board. Take your time and be sure to release the locking tabs on them.



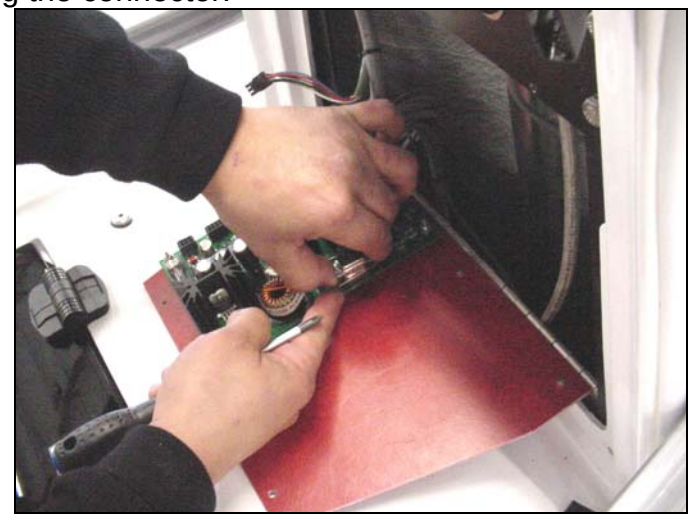


5.1 If any of the connectors are too tight to release by hand, a small screwdriver can be carefully used to separate them.

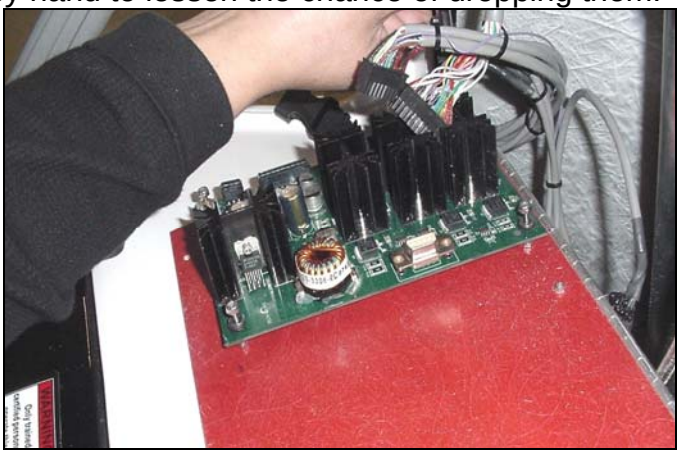


5.2 Remove the two Phillips head screws holding this metal connector in as shown.

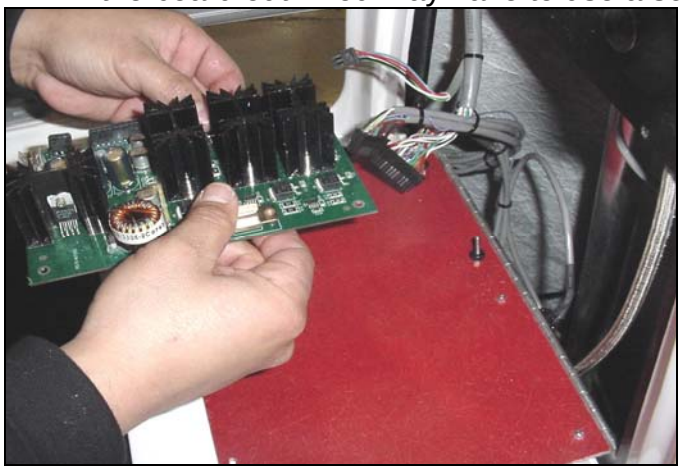
5.3 Unplug the connector.

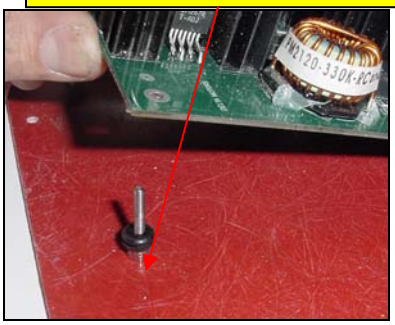


6.0 Using the ¼ inch nut driver loosen the four nylock nuts fastening the board down. Leave them finger tight and on the studs for now so you can remove them by hand to lessen the chance of dropping them.

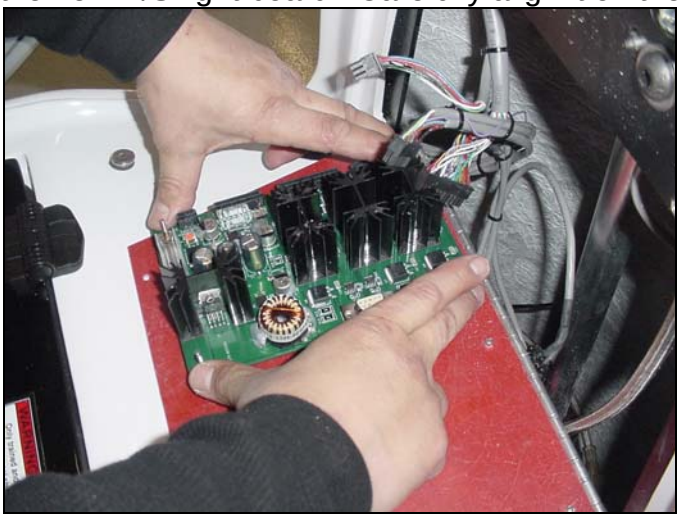


6.1 After removing the nylock nuts, washers and grommets from the four studs, lift the board out. You may have to use a screwdriver to help lift it off the studs.

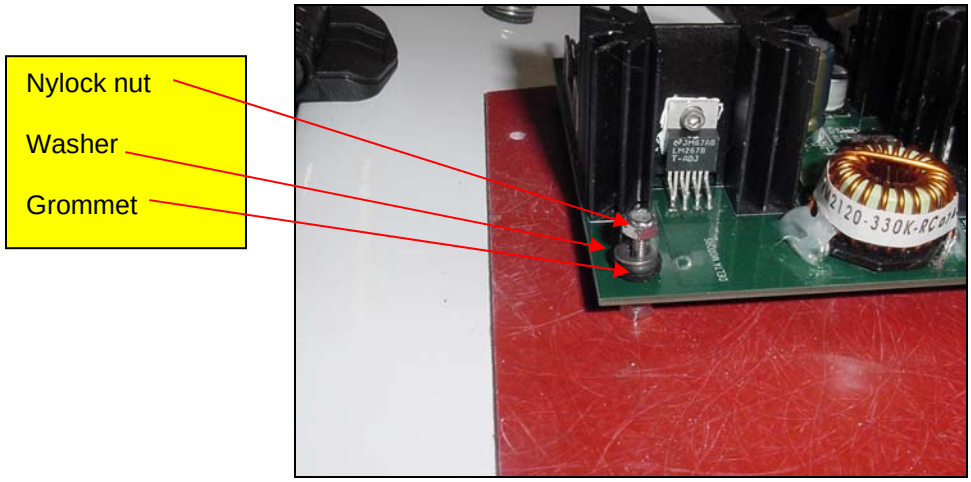




7.1 Install the new P/S light board. Carefully align it on the four studs as shown.

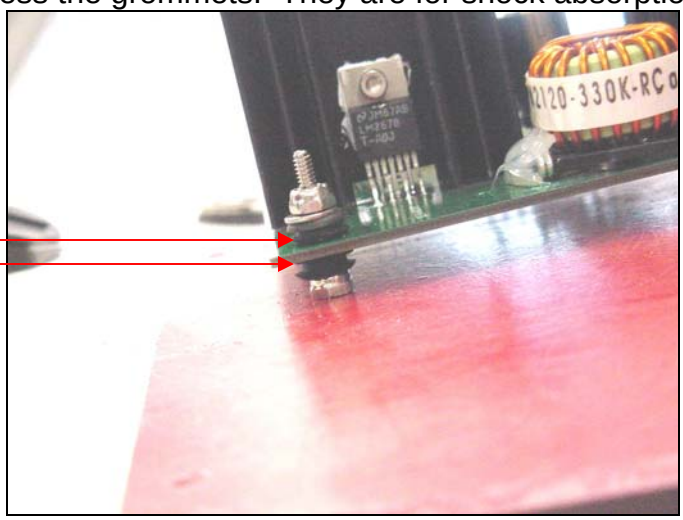


7.2 Place a grommet, then a washer, then a nylock nut on each stud and snug them down with the nut driver.

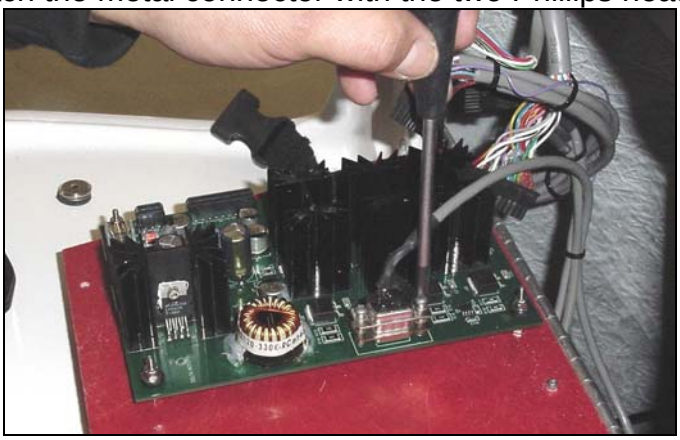


7.3 Do not over tighten the nylock nuts. They only need to be snug. Do not over compress the grommets. They are for shock absorption.

Note slight compression of grommets.

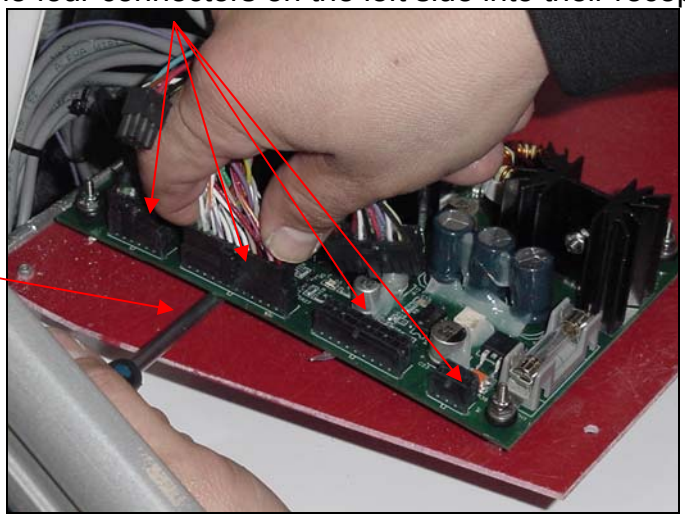


8.0 Reattach the metal connector with the two Phillips head screws.

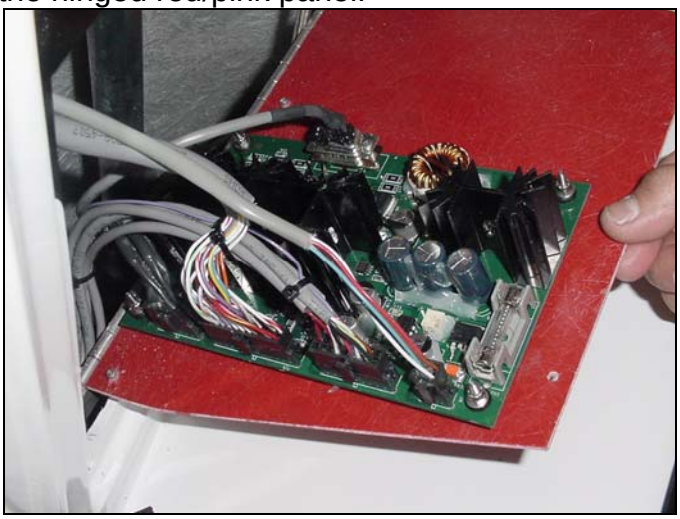


8.1 Plug the four connectors on the left side into their receptacles.

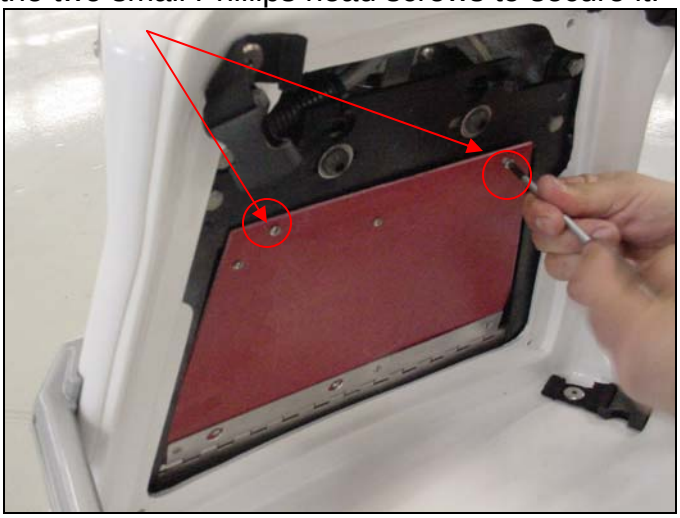
A screwdriver for support can be helpful here.



9.0 Close the hinged red/pink panel.



9.1 Install the two small Phillips head screws to secure it.



10.0 Re-install access panel. Align holes of panel with threaded holes.

10.1 Hold panel in place and hand thread fasteners to start.

10.2 Once all four fasteners are hand threaded, tighten them down with the Allen wrench. Do not over tighten; they only need to be snug.

10.3 Re-install pannier bag by securing all four plastic clasps.

For addition information, contact T3 Motion at: (714)-619-3600.